

Application No.: 10/696,057

Page 26

Docket No.: UC0350NA

REMARKS***Status of the Application***

Claims 1-11 and 13-15, and 17-22 are pending. Claim 22 is added and Claims 12 and 16 are canceled. The amendments to the Specification, Abstract and the Claims are summarized below. These amendments are submitted to address the objections set forth in the Office Action.

In the Specification:

The Specification is amended at the paragraph bridging pages 1 and 2, to delete the statement that adjacent R^1 groups can form rings, and to recite that adjacent R^2 groups can together form 5- or 6-membered rings. It is clear that the statement "or adjacent R groups together can form a 5- or 6-membered cycloalkyl, aryl, or heteroaryl ring" that appears at page 2, lines 11-13 refers to R^1 ; the statement that appears at page 2, lines 21-23 refers to R^2 . It is equally clear, as pointed out by the Examiner, that adjacent R^1 groups cannot form such rings since they are too far apart. Therefore, the statement has been deleted with respect to R^1 . For clarity, the statement at lines 21-23 has been amended to explicitly state that R^2 groups can form rings. No new matter is introduced.

The Specification is amended at page 4, to correct an obvious typographical error and change "alkenyl moiety" to "alkynyl moiety" in the definition of "oxyalkynyl". No new matter is introduced.

The Specification is amended at page 12, to correct an obvious typographical error and change the second Formula XII to Formula XIII. No new matter is introduced.

The Specification is amended at page 13 to clarify that at least one of r, s, t, and u is an integer which is not 0. It is clear that this is the meaning in the original claim. If all of r, s, t, and u are 0, then the material is a homopolymer and not a copolymer. Thus, one of the above subscripts must be non-zero. No new matter is introduced.

The Specification is amended at page 16 to delete reference to Alq₃ as a hole-injection/transport material. No new matter is introduced.

The Specification is amended at page 17 to indicate that the materials listed are electron injection/transport materials. It is known that the materials listed are electron injection/transport materials, as stated by the Examiner. No new matter is introduced.

Application No.: 10/696,057

Page 27

Docket No.: UC0350NA

The Specification is amended at page 18 to correct an obvious typographical error and change the cathode thickness to no greater than 1000 nm. No new matter is introduced.

The Specification is amended at page 19 to correct an obvious typographical error and delete the superscript "23". No new matter is introduced.

The Specification is amended at page 21 to correct an obvious typographical error and change "diester 5" to "diester 3" as suggested by the Examiner. This is clearly supported by the reaction scheme shown at page 20. No new matter is introduced.

The Specification is amended at page 24 to indicate that the boronate ester 8 is reacted with diester 2, and that the reaction product of this reaction is reacted with bromine. This is clearly supported by the reaction scheme shown at page 23. No new matter is introduced.

The Abstract is amended to be more descriptive and include Formula I, as suggested by the Examiner. No new matter is introduced.

In the Claims:

Claims 1, 2, 6, 8, and 21 are amended to indicate that adjacent R^2 groups can together form 5- or 6-membered rings, and that R^1 groups cannot form such rings. It is clear that this was the original meaning of the Claims, as discussed above with respect to the Specification. No new matter is introduced.

Claim 16 is canceled and rewritten as Claim 22, in which the formulae have been enlarged to facilitate viewing. No changes have been made to the formulae. No new matter is introduced.

Claim 20 is amended to correct an obvious typographical error. No new matter is introduced.

Claim 21, originally listed as a second Claim 20, is amended to correct the claim number and to indicate that at least one of r, s, t, and u is an integer which is not 0. As discussed above with respect to the Specification, it is clear that one of these must be a non-zero integer in order for the material to be a copolymer, as recited in the claim. No new matter is introduced.

Application No.: 10/696,057

Page 28

Docket No.: UC0350NA

Abstract

The Examiner objected to the Abstract as not describing the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details. Applicant respectfully submits that the amendment to the Abstract submitted herein has overcome this objection and requests that it be withdrawn.

Disclosure

The disclosure was objected to because of a number of informalities. Applicant wishes to thank the Examiner for the items identified and the Examiner's helpful comments. Applicant respectfully submits that the amendments to the Specification submitted herein have overcome these objections and requests that they be withdrawn.

Rejections under 35 U.S.C. § 112

Claims 1-21 were rejected under 35 U.S.C., second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention.

In Claims 1, 6, and 21, the statement "or adjacent R groups together can form a 5- or 6-member cycloalkyl, aryl or heteroaryl ring" was indicated as unclear. Applicant has amended these claims to explicitly state that adjacent R^2 groups can form such rings, and to delete the statement from the definition of R^1 .

In Claims 2 and 8, the statement "or adjacent R groups together can form a 5- or 6-member cycloalkyl, aryl or heteroaryl ring" was indicated as unclear. Applicant has also amended these claims to explicitly state that adjacent R^2 groups can form such rings.

The Examiner stated that Claim 12 was unclear. The Claim is canceled herein, thereby rendering the rejection moot.

As to Claim 16, the Examiner indicated that the formulae were not clearly readable. Applicant respectfully submits that the formulae are clear in Claim 16 and at page 12, at the top. However, in order to further prosecution, Claim 16 has been canceled and rewritten as Claim 22, with enlarged formulae structures.

Claim 21 was stated to be indefinite with respect to the definitions of r, s, t, and u. The Claim is amended to indicate that at least one of the subscripts r, s, t, and u is an integer that is not 0. As discussed above, it is clear that in order to have a copolymer, as recited in Claim 21, that at least one of the subscripts must be non-zero.

Application No.: 10/696,057

Page 29

Docket No.: UC0350NA

Applicant respectfully submits that these rejections have been overcome by the amendments submitted herein, and request that the rejections be withdrawn.

Miscellaneous

The Examiner noted that "XII" was used for two different formulae. This has been corrected by changing the second Formula XII to Formula XIII in the paragraph bridging pages 12 and 13, and in Claim 18.

Pending U.S. Application No. 10/696,058

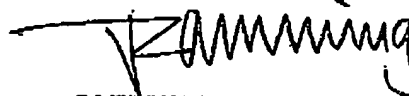
Applicant agrees that there is no apparent common ownership and no common inventor between this application and co-pending application number 10/696,057. Applicant is unaware of any joint research agreement that might fall within the purview of the CREATE Act, 35 U.S.C. §103(c)(2)-(c)(3). Applicant generally agrees that further proceedings may be required should there be overlapping subject claimed in this application and the co-pending application.

Conclusion

In view of the foregoing amendments and remarks, Applicant submits that the above referenced pending application is in condition for allowance. A Notice of Allowance for Claims 1-11, 13-15, and 17-22 is earnestly solicited.

Applicant believes that no fee is required with the submission of this paper. Should a fee, not accounted for herein, be due, then please charge such fee to Deposit Account No. 04-1928 (E.I. du Pont de Nemours and Company). Should the Examiner have any questions about the status of the application or the contents of this paper, the Examiner is invited to call the undersigned at the telephone number listed below.

Respectfully submitted,



JOHN H. LAMMING
ATTORNEY FOR APPLICANT
Registration No.: 34,857
Telephone: 302-992-5877
Facsimile: 302-892-1026

Date: March 13, 2006